

T. C. MURPHY.  
DRINKING FOUNTAIN.  
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997,205.

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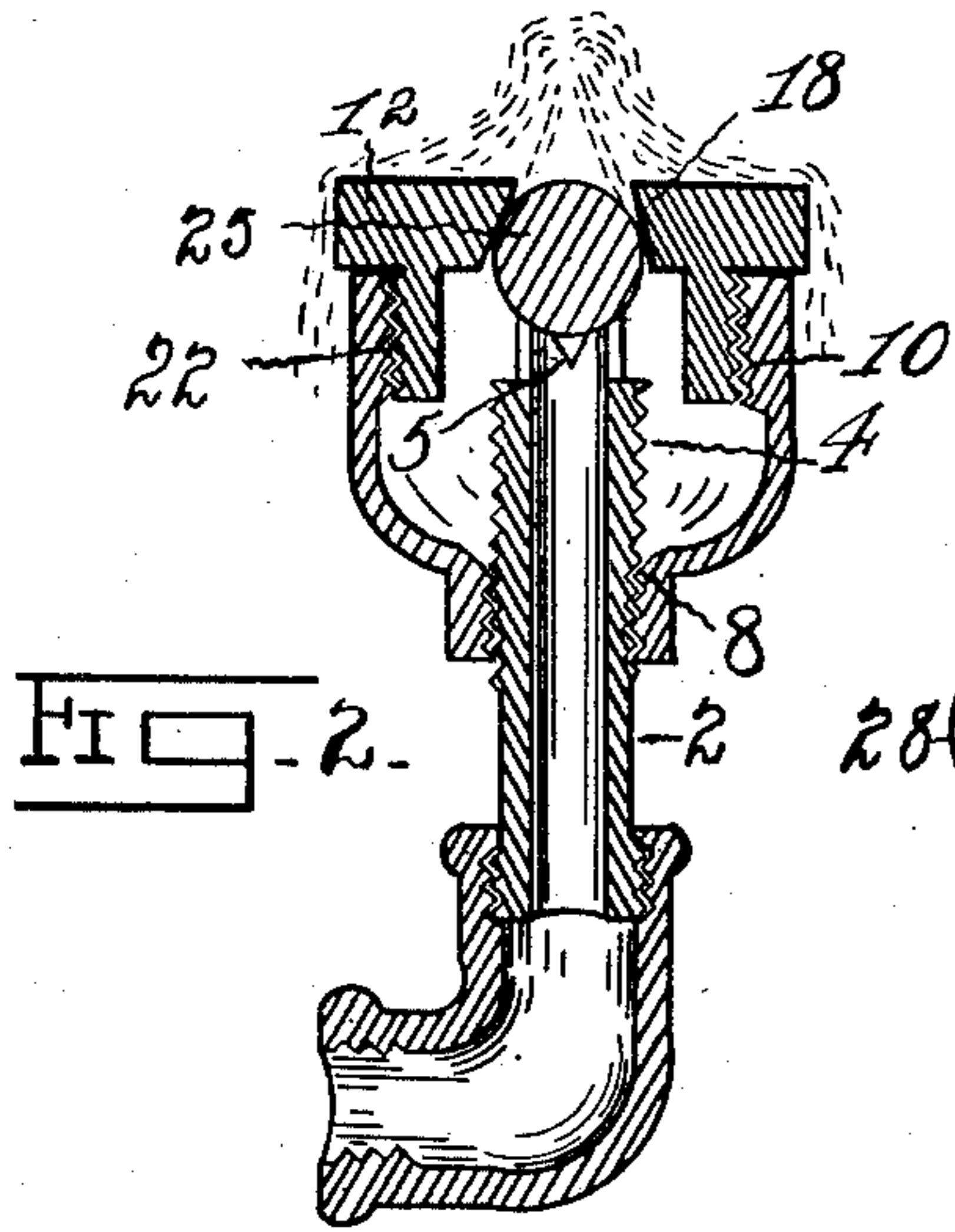


FIG. 2.

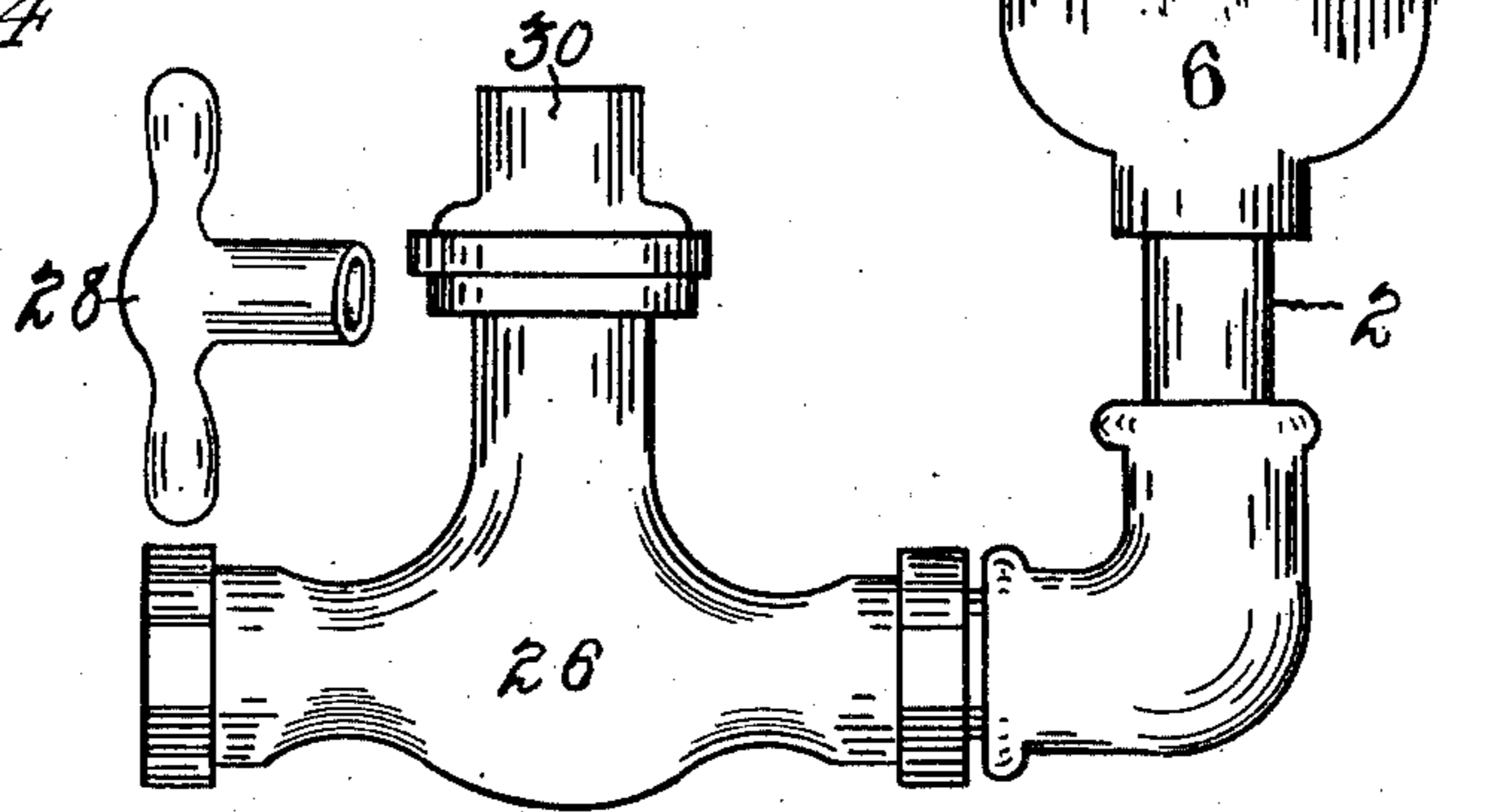


FIG. 1.

FIG. 3.

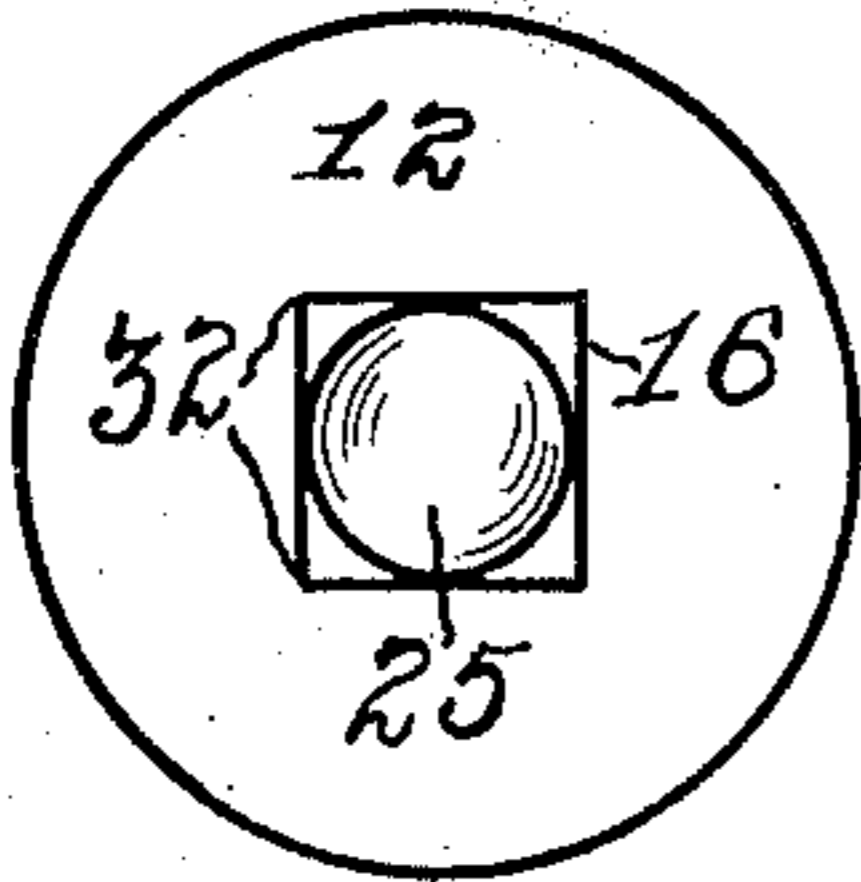


FIG. 4.

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# UNITED STATES PATENT OFFICE.

TIMOTHY C. MURPHY, OF DUBUQUE, IOWA.

DRINKING-FOUNTAIN.

997,205.

Specification of Letters Patent.

Patented July 4, 1911.

Application filed March 7, 1911. Serial No. 612,942.

*To all whom it may concern:*

Be it known that I, TIMOTHY C. MURPHY, a citizen of the United States, residing at Dubuque, in the county of Dubuque and State of Iowa, have invented a certain new and useful Improvement in Drinking-Fountains, of which the following is a specification.

My invention relates to drinking fountains and the object is to provide a sanitary mouth piece for drinking fountains which shall be economical in the use of water and which shall present the water in the form of a solid head and in such a manner that any water which has come in contact with the lips of the person drinking will not come in contact with the mouth piece of the fountain. In what it consists, its manner of construction and mode of operation will be fully described in the following specification and illustrated in the drawings accompanying the same and forming a part hereof.

Figure 1 is a perspective view of the mouth piece and its connections. Fig. 2 is a vertical section of the mouth piece and supply pipe. Fig. 3 is a top view of the mouth piece. Fig. 4 is a perspective view of the top of the supply pipe.

Like characters of reference denote corresponding parts in each of the figures.

Having reference to the drawings, 2 designates the body of the supply pipe which is provided with screw threads 4. In its upper end it is notched or cut away at 5, preferably four of these notches, one at each quarter of the circumference. Screwed upon this is a cup 6 that is screw threaded at 8 and screwed upon the screw threads 4 of the supply pipe 2. The inside of the cup 6 near the top is provided with the screw threads 10.

The mouth piece 12 consists of a cap 14 having its upper surface 15 preferably in a horizontal plane. In the center of the plate is preferably a square opening 16 and the sides 18 of this opening are beveled inwardly making the hole somewhat smaller at the top than bottom and making the edges around the hole slant toward the center. The body 20 of the mouth piece extends at right angles from the cap and is provided on its outer edge with screw threads 22 which engage the screw threads 10 in the cup 6. Within the cup 6 and also within the body of the mouth piece is a ball 25 which rests upon the top of the supply pipe 2 and is adapted to be forced into the opening 16 in

the mouth piece but not through it, the ball being sufficiently large to prevent its passing into the opening 16 and the upper surface of the ball coming flush or a little below the horizontal surface 15 of the mouth piece.

The supply pipe 2 is connected with a compression valve 26 having the loose key 28 adapted to be inserted in the head 30 and engage the valve therein (not shown). By this compression valve the general pressure from the main is controlled.

The manner of operating this device is substantially as follows. The supply pipe 2 is connected with the supply of water and on this is screwed the cup 6 but only partially, then the ball is placed upon the top of the supply pipe 2 over the notches 5 and the mouth piece 12 is screwed into the cup 6, then the cup 6 with the mouth piece 12 is screwed down upon the supply pipe until the ball 25 has been brought up rigidly into engagement with the opening 16 in the mouth piece and just touching the four sides of the mouth piece at its opening 16 leaving the openings at the corners 32 which are beveled. The water is then turned on by inserting the loose key into the compression stop and turning the valve herein and the water passes up through the supply pipe 2 and out through the notches 5 filling the cup and then up around the ball at the four corners 32 of the opening 16 and will carry the water up over the ball and the four streams will meet at the center where their force will be expended upon each other and the water will pass back down the outer sides of the four streams and out over the outer edge of the mouth piece which will make a solid mass of water rising up a short distance above the ball in convenient position to be drunk and any water that comes in contact with the lips of the party drinking will be carried out on the top of the water flowing over the outer edge of the mouth piece and will not in any manner come in contact with the mouth piece or again with the lips of the party drinking.

Having now described my invention what I claim and desire to secure by Letters Patent is:—

1. In a device of the character described, a supply pipe, a cup secured around the upper end of the supply pipe, a mouth piece provided with an opening, and a ball rigidly fixed between the end of the supply pipe and the mouth piece within the opening.

2. In a device of the character described a supply pipe, a cup secured around the end of the supply pipe, a mouth piece secured upon the cup and provided with an opening, 5 and a ball rigidly secured between the end of the supply pipe and the mouth piece within the opening, the edges of the mouth piece being beveled for directing the streams of water into contact with each other over 10 the top of said ball.

3. In a device of the character described, a supply pipe, a cup secured around the supply pipe, a mouth piece secured on the cup and provided with an opening therethrough, 15 a ball within the cup between the mouth piece and the opening in the end of the supply pipe engaging the opening in the mouth piece, and means for controlling the supply of water to the cup.

4. In a device of the character described, a supply pipe, provided with water supply openings near its end, a cup secured around the supply pipe, a mouth piece secured upon the cup and provided with an opening beveled inwardly and a ball secured within the 20 cup and upon the end of the supply pipe

and engaging at different points the beveled surfaces of the mouth piece in the opening with spaces around the ball for the passage of water from opposite sides through the 30 opening over the ball.

5. In a device of the character described, a supply pipe provided with notches in its upper end, a cup secured to the supply pipe below the opening in the end of the supply 35 pipe and extending above the end of the pipe, a mouth piece provided with a rectangular opening having the sides of said opening beveled, a ball in the cup engaging the end of the supply pipe over the notches in 40 said pipe and engaging the rectangular opening in the mouth piece, and a compression valve for controlling the supply of water to the supply pipe.

In testimony whereof, I have hereunto 45 signed my name in the presence of two witnesses.

TIMOTHY C. MURPHY.

Witnesses:

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A. B. HANSHAW.